

Title (en)

NON-VOLATILE MEMORY AND METHOD WITH BLOCK MANAGEMENT SYSTEM

Title (de)

NICHTFLÜCHTIGER SPEICHER UND VERFAHREN MIT EINEM BLOCKVERWALTUNGSSYSTEM

Title (fr)

MEMOIRE NON VOLATILE ET PROCEDE DE SYSTEME DE GESTION DE BLOCS

Publication

EP 1704571 A1 20060927 (EN)

Application

EP 04815706 A 20041221

Priority

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Abstract (en)

[origin: EP2293196A1] In a nonvolatile memory with block management system that supports update blocks with non-sequential logical units, an index of the logical units in a non-sequential update block is buffered in RAM and stored periodically into the non-volatile memory. In one embodiment, the index is stored in a block dedicated for storing indices. In another embodiment, the index is stored in the update block itself. In yet another embodiment, the index is stored in the header of each logical unit. In another aspect, the logical units written after the last index update but before the next have their indexing information stored in the header of each logical unit. In this way, after a power outage, the location of recently written logical units can be determined without having to perform a scanning during initialization. In yet another aspect, a block is managed as partially sequential and partially non-sequential, directed to more than one logical subgroup.

IPC 8 full level

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CPC (source: EP KR US)

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